



# UNITED STATES PATENT AND TRADEMARK OFFICE

W

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/016,220	10/30/2001	Kazutaka Ando	450100-03566	3009
20999	7590	02/17/2005	EXAMINER	
FROMMER LAWRENCE & HAUG 745 FIFTH AVENUE- 10TH FL. NEW YORK, NY 10151			WORJLOH, JALATEE	
			ART UNIT	PAPER NUMBER

3621

DATE MAILED: 02/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

10/016,220

**Applicant(s)**

ANDO ET AL.

**Examiner**

Jalatee Worjloh

**Art Unit**

3621

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 13 December 2004.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-40 is/are pending in the application.
- 4a) Of the above claim(s) 26-30, 33 and 36 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-3, 12-15, 25, 31, 32 and 34-38 is/are rejected.
- 7) ☒ Claim(s) 4-11, 16-24, 39 and 40 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

## **DETAILED ACTION**

### ***Election/Restrictions***

1. Claims 26-30, 33, and 36 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on December 13, 2004.
2. Applicant's election with traverse of claims 1-25, 31, 32, 34, 35 and 37-40 in the reply filed on December 13, 2004 is acknowledged. The traversal is on the ground(s) that Groups I and II does not required different searches. This is not found persuasive because Group II has a separate utility such as storage means for storing user information which includes user identification information used for identifying a user terminal and improvement information identification information improving the quality of data processed in the user terminal. Because these inventions are distinct for the reasons given above and the search required for Group II is not required for Group I, restriction for examination purposes as indicated is proper.

The requirement is still deemed proper and is therefore made FINAL.

3. Claims 1-25, 31, 32, 34, 35 and 37-40 have been examined.

### ***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an

Art Unit: 3621

international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1-3, 13-15, 31,32, 37 and 38 are rejected under 35 U.S.C. 102(e) as being anticipated by US Patent No. 6744891 to Allen.

Allen discloses reading means (i.e. customer terminal) for reading data and improvement information (i.e. key for decrypting the data and thereby reconstruct an undegraded data) used for improving the quality of the data from a recording medium which stores the data and the improvement information (see col. 5, lines 4-19), improvement-information requesting means (i.e. customer terminal) for requesting another improvement information used for improving the quality of the data read by the reading means (see col. 5, lines 32-35), and quality improving means (i.e. data digital data processor) for improving the quality of the data according to at least the improvement information and the another improvement information obtained according to a request made by the improvement-information requesting means and for outputting high-quality data (see col. 5, lines 36-46).

Referring to claims 2, 14 and 38, Allen discloses the apparatus wherein the data is degraded data obtained by degrading the original data and the quality improving means can restore the original data from the degraded data according to at least the improvement information and the another improvement information (see col. 5, lines 4-19).

Referring to claims 3 and 15, Allen discloses the quality improving means make high-quality data of which the quality is improved by  $N+1$  ( $N$  is a natural number) pieces of the improvement information and which is output have higher quality than high-quality data of which the quality is improved by  $N$  pieces of the improvement information and which is output (see col. 5, lines 32-46).

Referring to claim 13, Allen discloses reading means (i.e. customer terminal) for reading data and improvement information (i.e. key for decrypting the data and thereby reconstruct an undegraded data) used for improving the quality of the data from a recording medium which stores the data and the improvement information (see col. 5, lines 4-19), improvement-information requesting means (i.e. customer terminal) for requesting another improvement information used for improving the quality of the data read by the reading means (see col. 5, lines 32-35), and quality improving means (i.e. data digital data processor) for improving the quality of the data according to at least the improvement information and the another improvement information obtained according to a request made by the improvement-information requesting means and for outputting high-quality data and improvement-information sending means (i.e. data digital data processor) for sending the improvement information to another information processing apparatus(see col. 5, lines 36-46).

Referring to claims 31 and 34, Allen discloses reading data and improvement information (i.e. key for decrypting the data and thereby reconstruct an undegraded data) used for improving the quality of the data from a recording medium which stores the data and the improvement information (see col. 5, lines 4-19), requesting another improvement information used for improving the quality of the read data (see col. 5, lines 32-35), and improving the quality of the data according to at least the improvement information and the another improvement information obtained according to a request and outputting high-quality data (see col. 5, lines 36-46).

Referring to claims 32 and 35, Allen discloses reading data and improvement information (i.e. key for decrypting the data and thereby reconstruct an undegraded data) used for improving the quality of the data from a recording medium which stores the data and the improvement

Art Unit: 3621

information (see col. 5, lines 4-19), requesting another improvement information used for improving the quality of the read data (see col. 5, lines 32-35), and improving the quality of the data according to at least the improvement information and the another improvement information obtained according to a request and outputting high-quality data and sending the improvement information to another information processing apparatus (see col. 5, lines 36-46).

Referring to claim 37, Allen discloses data and improvement information for improving the quality of the data and for improving the quality of another data stored in another storage medium (see claim 1 above).

***Claim Rejections - 35 USC § 103***

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 12 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Allen as applied to claim 1 above.

Allen discloses an improvement-information-request receiving means (i.e. digital data processor) for receiving an improvement-information request signal, improvement-information sending means (i.e. digital data processor) for sending the improvement information (see claim 1 above). Allen does not expressly disclose the signal indicating that another information processing apparatus request the improvement information and sending the information to the another information processing apparatus according to an improvement-information request signal received by the improvement-information-request-signal receiving means. However,

Art Unit: 3621

Allen's receiving and sending means are connected to a plurality of user terminal (see fig. 1), which can all receive the improvement information. At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to modify the apparatus disclose by Allen to include an improvement-information-request-signal for receiving a request signal indicating that another information processing apparatus requests the improvement information and sending the information. One of ordinary skill in the art would have been motivated to do this because provides adequate notification to the receiving means thereby preventing unauthorized individuals from receiving the data.

Referring to claim 25, Allen discloses improvement information requesting means for requesting improvement information, wherein the improvement information request include the identification information of the data, the identification information of the identification information (see claim 13 above). Allen does not expressly disclose the improvement information includes the user identification information. However, this difference is only found in the nonfunctional descriptive material and is not functionally in the step recited. The process of requesting information would be performed the same regardless of the data. Thus, this descriptive material will not distinguish the claimed invention from the prior art in terms of patentability, see *In re Gulack*, 703 F.2d 1381, 1385, 217 USPQ 401, 404 (Fed. Cir. 1983); *In re Lowry*, 32 F.3d 1579, 32 USPQ2d 1031 (Fed. Cir. 1994). Therefore, at the time the invention was made, it would have been obvious to a person of ordinary skill in the art to modify the apparatus disclose by Allen to include user identification information in the request. One of ordinary skill in the art would have been motivated to do this because of the subjective interpretation of the data does not patentably distinguish the claimed invention.

***Allowable Subject Matter***

8. Claims 4-11, 16-24, 39 and 40 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Conclusion***

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- US Patent No. 5991458 to Kunitake et al. disclose an image quality prediction apparatus.
- US Patent NO. 6501856 to Kuwano et al. disclose extracting degraded information.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jalatee Worjloh whose telephone number is 703-305-0057. The examiner can normally be reached on Mondays-Thursdays 8:30 - 7:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Trammell can be reached on 703-305-9768. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306 for Regular/After Final Actions and 703-746-9443 for Non-Official/Draft.



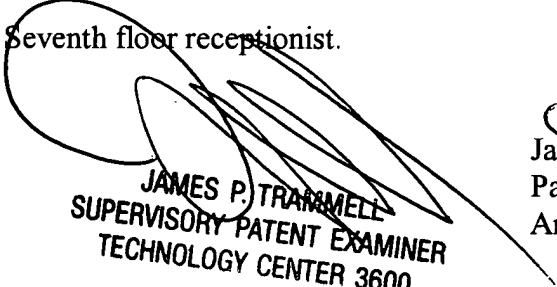
Art Unit: 3621


Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any response to this action should be mailed to:

***Commissioner of Patents and Trademarks***  
**PO Box 1450**  
***Alexandria, VA 22313-1450***

Hand delivered responses should be brought to Crystal Park 5, 2451 Crystal Drive,  
Arlington, V.A., Seventh floor receptionist.

  
**JAMES P. TRAMMELL**  
**SUPERVISORY PATENT EXAMINER**  
**TECHNOLOGY CENTER 3600**

  
**Jaltee Worjloh**  
**Patent Examiner**  
**Art Unit 3621**

\*\*\*

February 15, 2005